Appl. No. 10/524,643 Amdt. dated April 1, 2010 Reply to Office Action of December 24, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1 90. (Canceled)
- 91. (previously presented): A pBHT1 vector having a nucleic acid sequence of ATCC Deposit No. PTA-10152.
- 92. (previously presented): The pBHT1 vector of claim 91, wherein the vector further comprises a polynucleotide encoding a self-protein associated with an autoimmune disease.
- 93. (previously presented): The pBHT1 vector of claim 92, wherein the autoimmune disease is multiple sclerosis.
- 94. (previously presented): The pBHT1 vector of claim 93, wherein the self-protein associated with multiple sclerosis is selected from the group consisting of myelin basic protein (MBP), proteolipid protein, myelin associated glycoprotein, cyclic nucleotide phosphodiesterase, myelin-associated glycoprotein, myelin-associated oligodendrocytic basic protein; alpha-B-crystalin and myelin oligodendrocyte glycoprotein.
- 95. (withdrawn): The pBHT1 vector of claim 92, wherein the autoimmune disease is insulin dependent diabetes mellitus (IDDM).
- 96. (withdrawn): The pBHT1 vector of claim 95, wherein the self-protein associated with insulin dependent diabetes mellitus (IDDM) is selected from the group consisting of tyrosine phosphatase IA2, IA-2ß, glutamic acid decarboxylase (65 and 67 kDa forms),

Appl. No. 10/524,643 Amdt. dated April 1, 2010 Reply to Office Action of December 24, 2009

carboxypeptidase H, heat shock proteins, glima 38, islet cell antigen 69 KDa, p52, islet cell glucose transporter GLUT-2, insulin, proinsulin and preproinsulin.

- 97. (previously presented): The pBHT1 vector of claim 94, wherein the self-protein associated with multiple sclerosis is myelin basic protein (MBP).
- 98. (New): The pBHT1 vector of claim 94, wherein the self-protein associated with insulin dependent diabetes mellitus is proinsulin.
- 99. (New): A vector comprising nucleic acid sequence of ATCC Deposit No. PTA-10152 and a nucleic acid sequence encoding a self-protein associated with insulin dependent diabetes mellitus.
- 100. (New): The vector of claim 99 wherein the self-protein associated with insulin dependent diabetes mellitus encoded by the nucleic acid is proinsulin.
- 101. (New): A pharmaceutical formulation comprising the vector of claim 99 in a pharmaceutically acceptable carrier.